

What is claimed is:

1. An information processing apparatus, comprising:

5 a memory having a first memory area for storing a plurality of teaching material elements including text, video and/or audio data, and having a second memory area for storing teaching material presentation patterns;

10 first processor means for providing a questionnaire to a user and analyzing an answer to said questionnaire to determine a trait of said user related to personality, and for determining a teaching material presentation pattern for said user in accordance with said determined trait of said user to store the determined teaching material presentation pattern in said second memory area;

15 second processor means for retrieving said teaching material presentation pattern for said user from said second memory area, selecting and editing ones of a plurality of teaching material elements of a specific subject in said first memory area in accordance with said teaching material presentation pattern to generate a teaching material module, and presenting said teaching material module to said user in accordance with said teaching material presentation pattern; and

20 third processor means for analyzing learning behavior of said user during a learning process of said user using said presented teaching material module in accordance with said teaching material presentation pattern, modifying said teaching material presentation pattern in accordance with said analysis, and storing said modified presentation pattern in said second memory area.

2. The information processing apparatus according to claim 1,  
30 wherein said second processor means further retrieves said modified teaching material presentation pattern for said user from said second memory area, selects and edits ones of said plurality of teaching material elements of said specific subject in said first memory area in accordance with said modified presentation pattern  
35 to generate another teaching material module, and presents said other teaching material module to said user in accordance with said modified presentation pattern.

3. The information processing apparatus according to claim 1, wherein said third processor means stores a record of said learning behavior of said user in said second memory area, and analyzes said stored record of the learning behavior of said user.

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4. The information processing apparatus according to claim 1, wherein said teaching material presentation pattern defines specific magnitudes related to difficulty, required time and dissimilarity of the teaching material elements.

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5. The information processing apparatus according to claim 1, wherein said questionnaire comprises first and second portions, and said second portion of said questionnaire is determined depending on an answer to said first portion of said questionnaire, and is provided after said first portion of said questionnaire is provided.

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6. The information processing apparatus according to claim 1, wherein said first processor means analyzes the answer to said questionnaire to further determine a trait of said user related to general life attitude.

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7. The information processing apparatus according to claim 6, wherein said first processor means determines said trait of said user related to learning attitude in accordance with said personality trait and said trait of general life attitude.

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8. The information processing apparatus according to claim 1, wherein said teaching material element is a video clip.

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9. The information processing apparatus according to claim 1 being connected to an information processing terminal over a network for providing said questionnaire and said teaching material module to said information processing terminal.

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10. A program stored in a recording medium for use in an information processing apparatus, said information processing apparatus

comprising a memory and a processor, said memory having a first memory area for storing a plurality of teaching material elements including text, video and/or audio data, and having a second memory area for storing a teaching material presentation pattern, said  
5 program enabling said processor to perform the steps of:

providing a questionnaire to a user and analyzing an answer to said questionnaire to determine a trait of said user related to personality;

determining a teaching material presentation pattern for said  
10 user in accordance with said determined trait of said user to store the determined teaching material presentation pattern in said second memory area;

retrieving said teaching material presentation pattern for said user from said second memory area, selecting and editing ones  
15 of a plurality of teaching material elements of a specific subject in said first memory area in accordance with said teaching material presentation pattern to generate a teaching material module, and presenting said teaching material module to said user in accordance with said teaching material presentation pattern; and

analyzing learning behavior of said user during a learning  
20 process of said user using said presented teaching material module in accordance with said teaching material presentation pattern, modifying said teaching material presentation pattern in accordance with said analysis, and storing said modified  
25 presentation pattern in said second memory area.

11. The program according to claim 10 further enabling said processor to perform the step of retrieving said modified teaching material presentation pattern for said user from said second memory  
30 area, selecting and editing ones of said plurality of teaching material elements of said specific subject in said first memory area in accordance with said modified presentation pattern to generate another teaching material module, and presenting said other teaching material module to said user in accordance with said  
35 modified presentation pattern.

12. The program according to claim 10, further enabling said

processor to perform the step of storing a record of said learning behavior of said user during the learning process of said user using said presented teaching material module of the specific subject in accordance with said teaching material presentation pattern in said second memory area, wherein the step of analyzing learning behavior comprises analyzing said stored record of the learning behavior of said user.

13. The program according to claim 10, wherein said teaching material presentation pattern defines specific magnitudes related to difficulty, required time and dissimilarity of the teaching material elements.

14. The program according to claim 10, wherein said questionnaire comprises first and second portions, and said second portion of said questionnaire is determined depending on an answer to said first portion of said questionnaire, and is provided after said first portion of said questionnaire is provided.

15. The program according to claim 10, wherein the step of providing a questionnaire and determining a trait comprises analyzing the answer to said questionnaire to further determine a trait of said user related to general life attitude.

16. The program according to claim 10, wherein the step of providing a questionnaire and determining a trait comprises determining said trait of said user related to learning attitude in accordance with said personality trait and said trait of general life attitude.

17. The program according to claim 10, wherein said teaching material element is a video clip.

18. The program according to claim 10, wherein said information processing apparatus is connected to an information processing terminal over a network, and said questionnaire and said teaching material module are provided to said information processing

terminal.

19. A method for adaptively presenting to a user a teaching material in a computer-assisted education system which presents  
5 to the user a plurality of teaching material elements including text, video, and/or audio data, said method comprising the steps of:

providing a questionnaire to a user and analyzing an answer to said questionnaire to determine a trait of said user related  
10 to personality;

determining a teaching material presentation pattern for said user in accordance with the trait of said user;

selecting and editing ones of a plurality of teaching material elements of a specific subject in accordance with said teaching  
15 material presentation pattern for said user to generate a teaching material module, and presenting said teaching material module to said user in accordance with said teaching material presentation pattern; and

analyzing learning behavior of said user during a learning  
20 process of said user using said presented teaching material module, and modifying said teaching material presentation pattern in accordance with said analysis.

20. The method according to claim 19 further comprising the step  
25 of retrieving said modified teaching material presentation pattern for said user from said second memory area, selecting and editing ones of said plurality of teaching material elements of said specific subject in said first memory area in accordance with said modified presentation pattern to generate another teaching  
30 material module, and presenting said other teaching material module to said user in accordance with said modified presentation pattern.

21. The method according to claim 19, wherein said teaching material presentation pattern defines specific magnitudes related  
35 to difficulty, required time and dissimilarity of the teaching materials.

